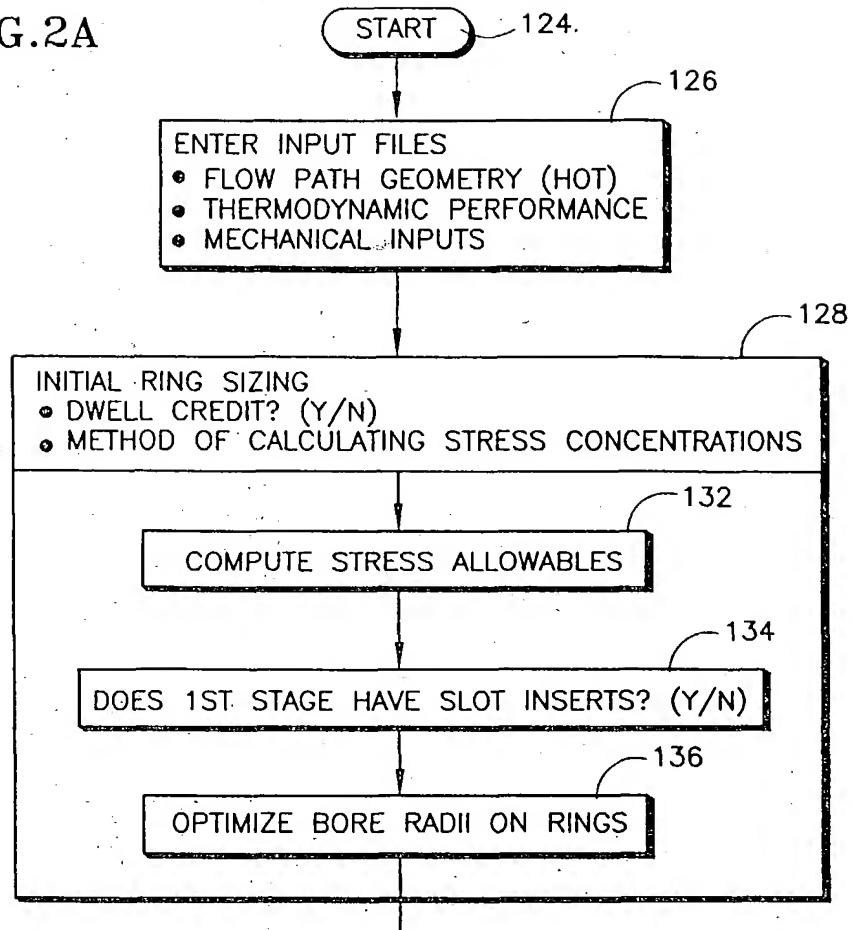


FIG. 1

FIG.2A



A

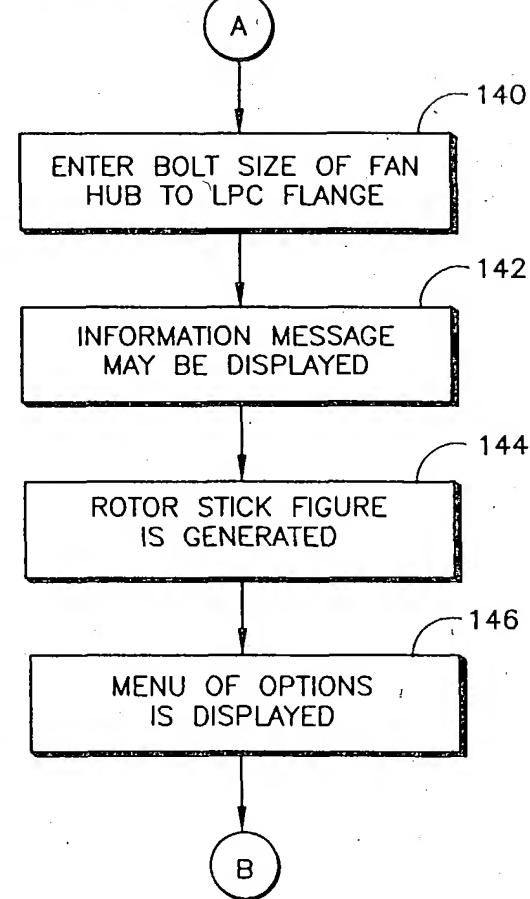


FIG.2B

FIG.2C

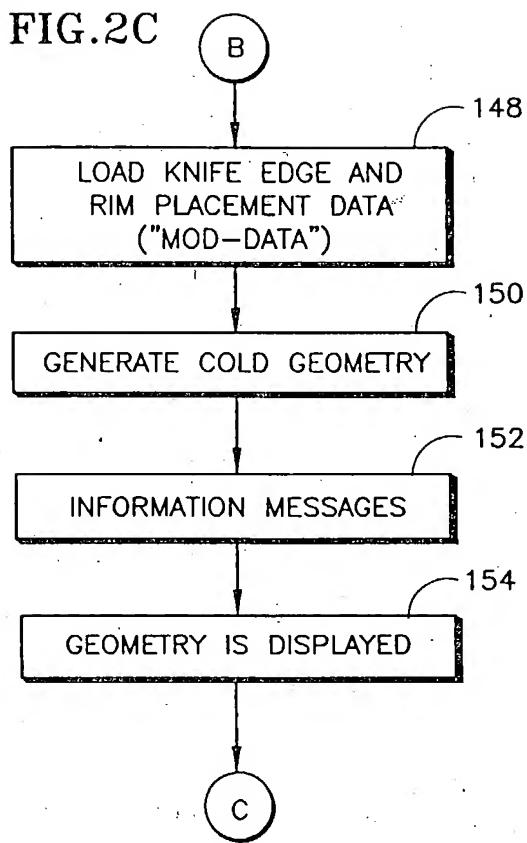


FIG.2D

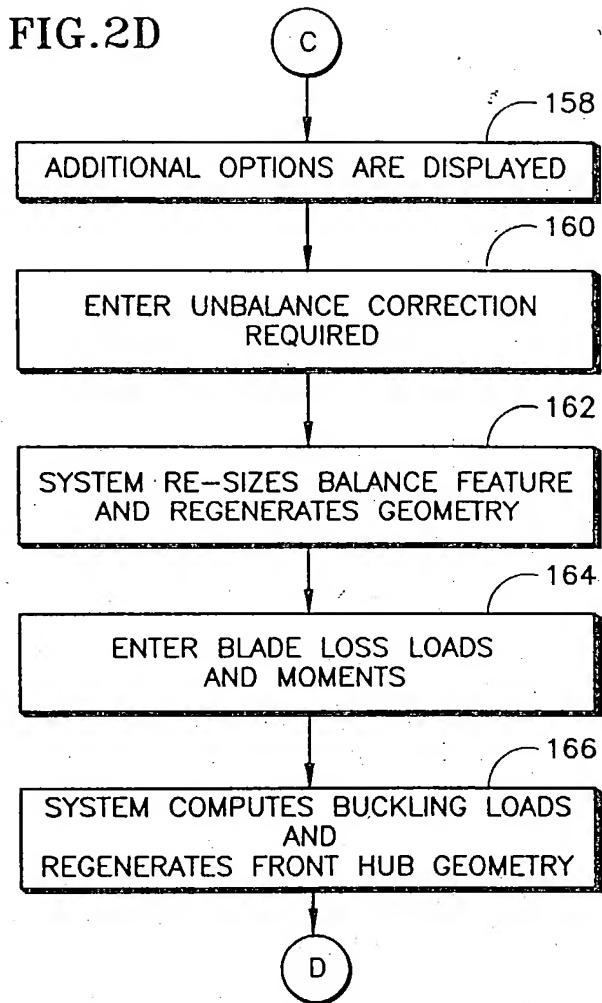


FIG.2E

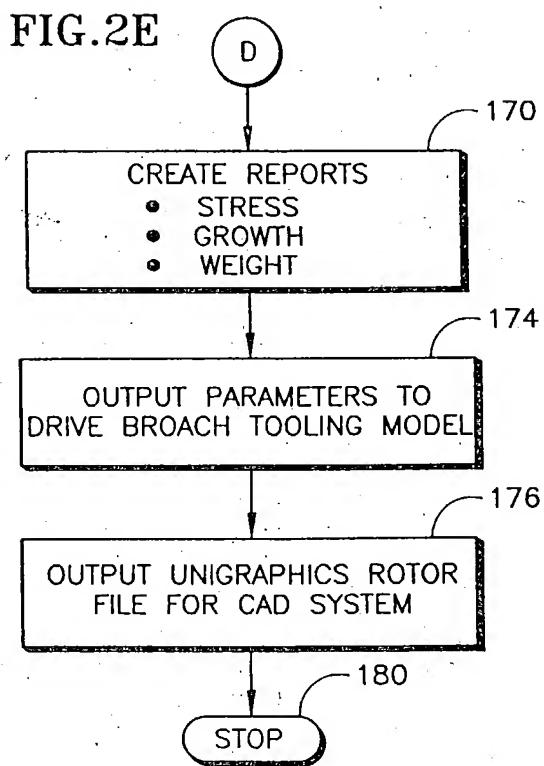


FIG.3

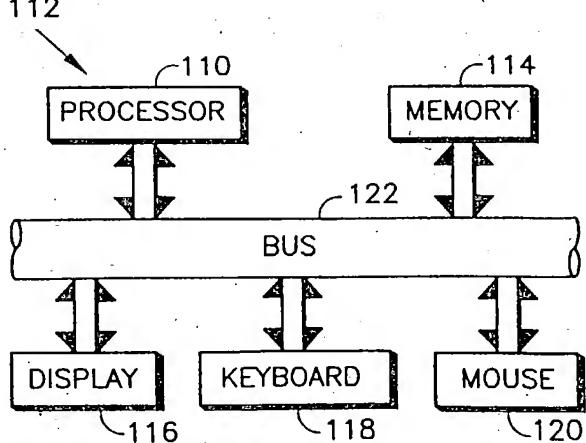


FIG. 4

Initial Ring Sizing																																			
<input type="button" value="Update"/> <input type="button" value="Accept"/> <input type="button" value="Validate!"/>																																			
Dwell Credit <input type="checkbox"/> Dwell Credit? : <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="text" value="5"/> Dwell Credit:	<input type="text" value="20000"/> Cycles:	<input type="text" value="4000"/> Gross Cycles:																															
Kt Calc Method <table border="1"> <thead> <tr> <th>Stage:</th> <th>1.1</th> <th>1.2</th> <th>1.3</th> <th>1.6</th> <th>2</th> </tr> </thead> <tbody> <tr> <td>User Entered</td> <td><input type="text" value="User Entered"/></td> </tr> <tr> <td>Method:</td> <td><input type="text" value="Hoogewerff"/></td> </tr> <tr> <td>Kt value:</td> <td>2.16291</td> <td>2.00488</td> <td>2.01004</td> <td>1.96708</td> <td>2.06464</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2.09085 2.10832</td> </tr> </tbody> </table>						Stage:	1.1	1.2	1.3	1.6	2	User Entered	<input type="text" value="User Entered"/>	Method:	<input type="text" value="Hoogewerff"/>	Kt value:	2.16291	2.00488	2.01004	1.96708	2.06464						2.09085 2.10832								
Stage:	1.1	1.2	1.3	1.6	2																														
User Entered	<input type="text" value="User Entered"/>	<input type="text" value="User Entered"/>	<input type="text" value="User Entered"/>	<input type="text" value="User Entered"/>	<input type="text" value="User Entered"/>																														
Method:	<input type="text" value="Hoogewerff"/>	<input type="text" value="Hoogewerff"/>	<input type="text" value="Hoogewerff"/>	<input type="text" value="Hoogewerff"/>	<input type="text" value="Hoogewerff"/>																														
Kt value:	2.16291	2.00488	2.01004	1.96708	2.06464																														
					2.09085 2.10832																														
Kt Calc Method Results <input type="button" value="Run U553!"/>																																			
<table border="1"> <thead> <tr> <th>Stage:</th> <th>1.1</th> <th>1.2</th> <th>1.3</th> <th>1.6</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr> <td>Concentrated Stress:</td> <td>121948.</td> <td>121289.</td> <td>120629.</td> <td>119970.</td> <td>119531.</td> <td>119201.</td> <td>122058.</td> </tr> <tr> <td>Hoop Stress:</td> <td>51233.</td> <td>54277.</td> <td>53566.</td> <td>53883.</td> <td>51489.</td> <td>51194.</td> <td>52849.</td> </tr> </tbody> </table>						Stage:	1.1	1.2	1.3	1.6	2	3	4	Concentrated Stress:	121948.	121289.	120629.	119970.	119531.	119201.	122058.	Hoop Stress:	51233.	54277.	53566.	53883.	51489.	51194.	52849.						
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<input type="button" value="Optimize Bore IDs on Rings!"/>																																			

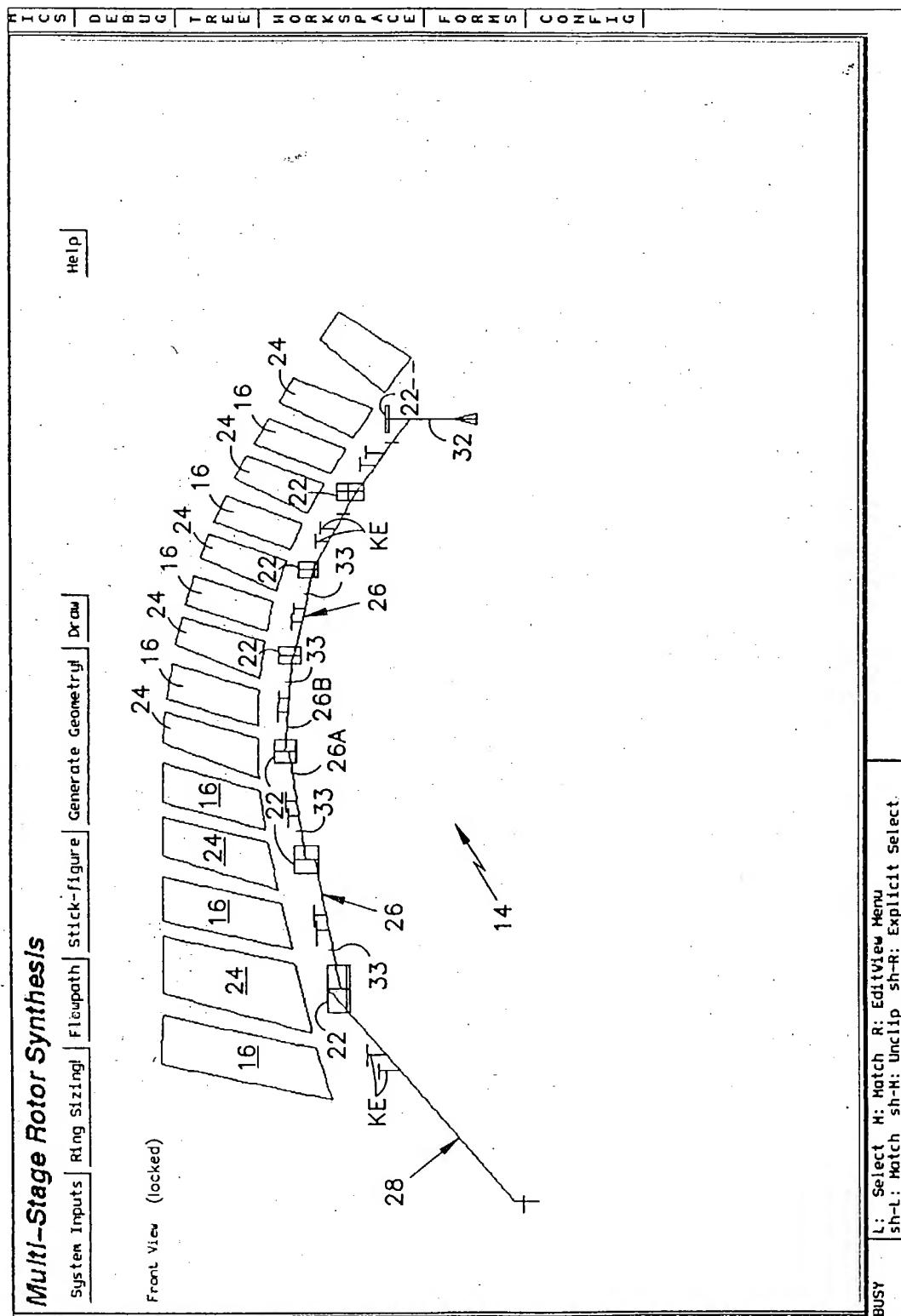


FIG. 5

FIG.6A

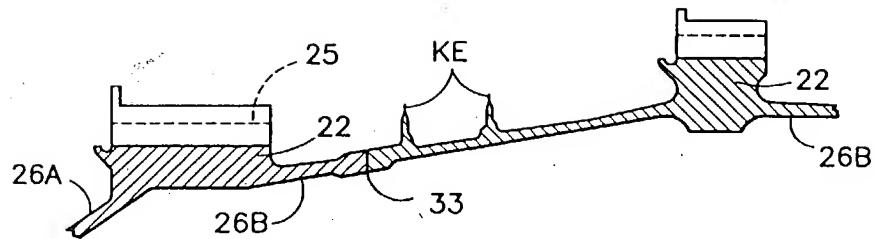


FIG.6B

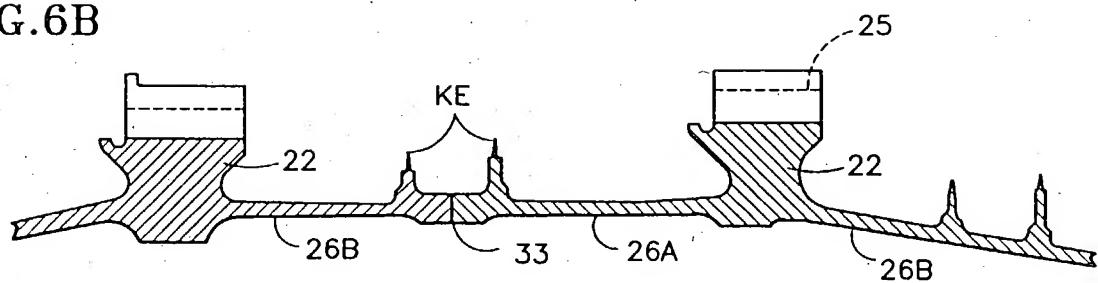


FIG.6C

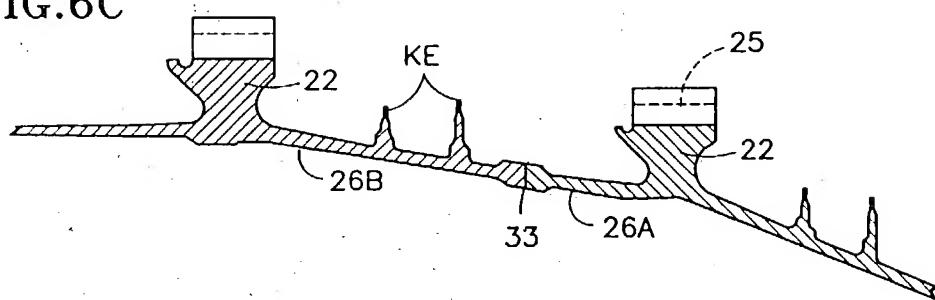


FIG. 7

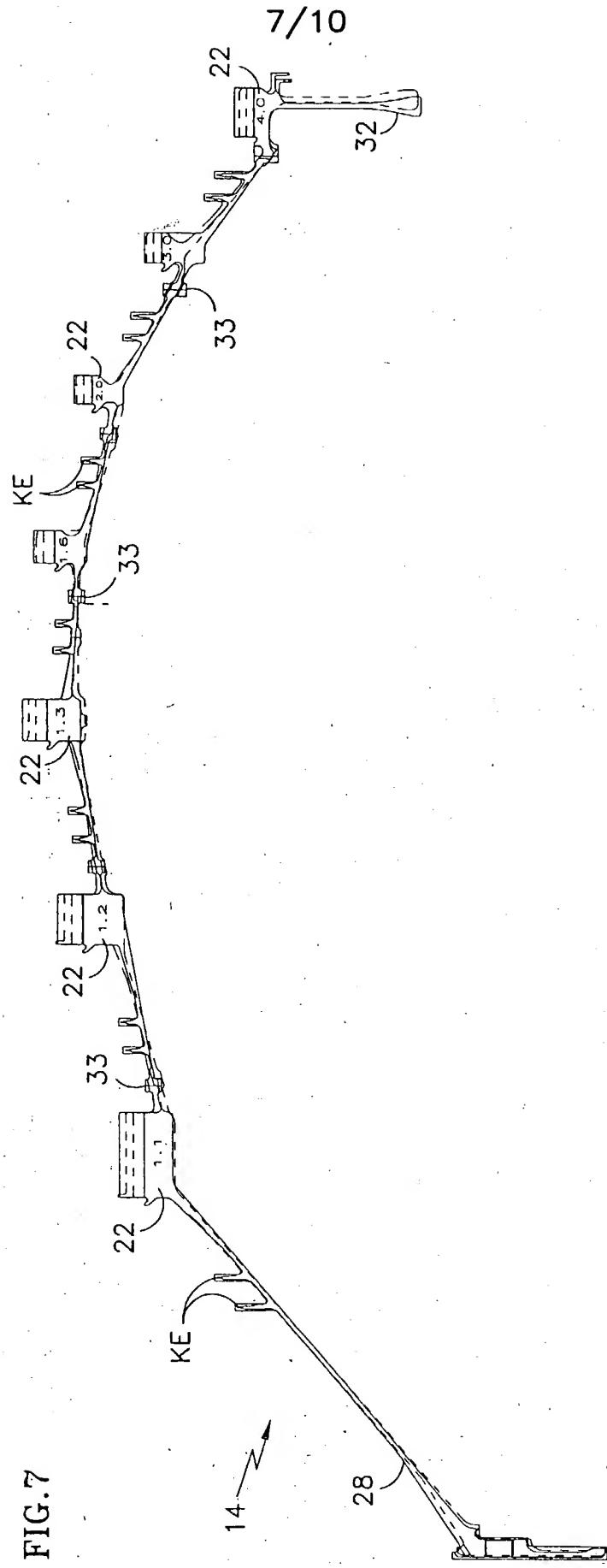
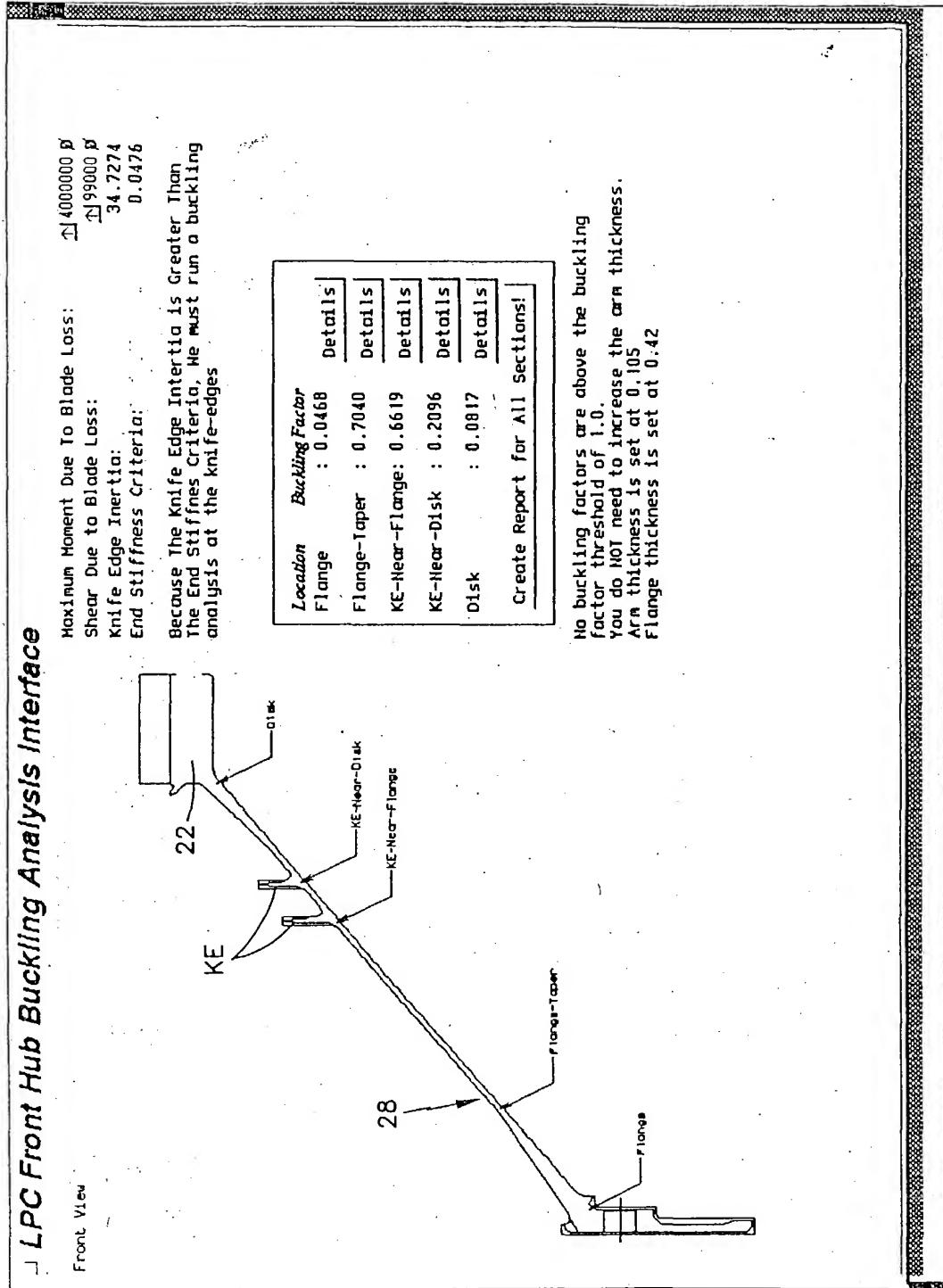
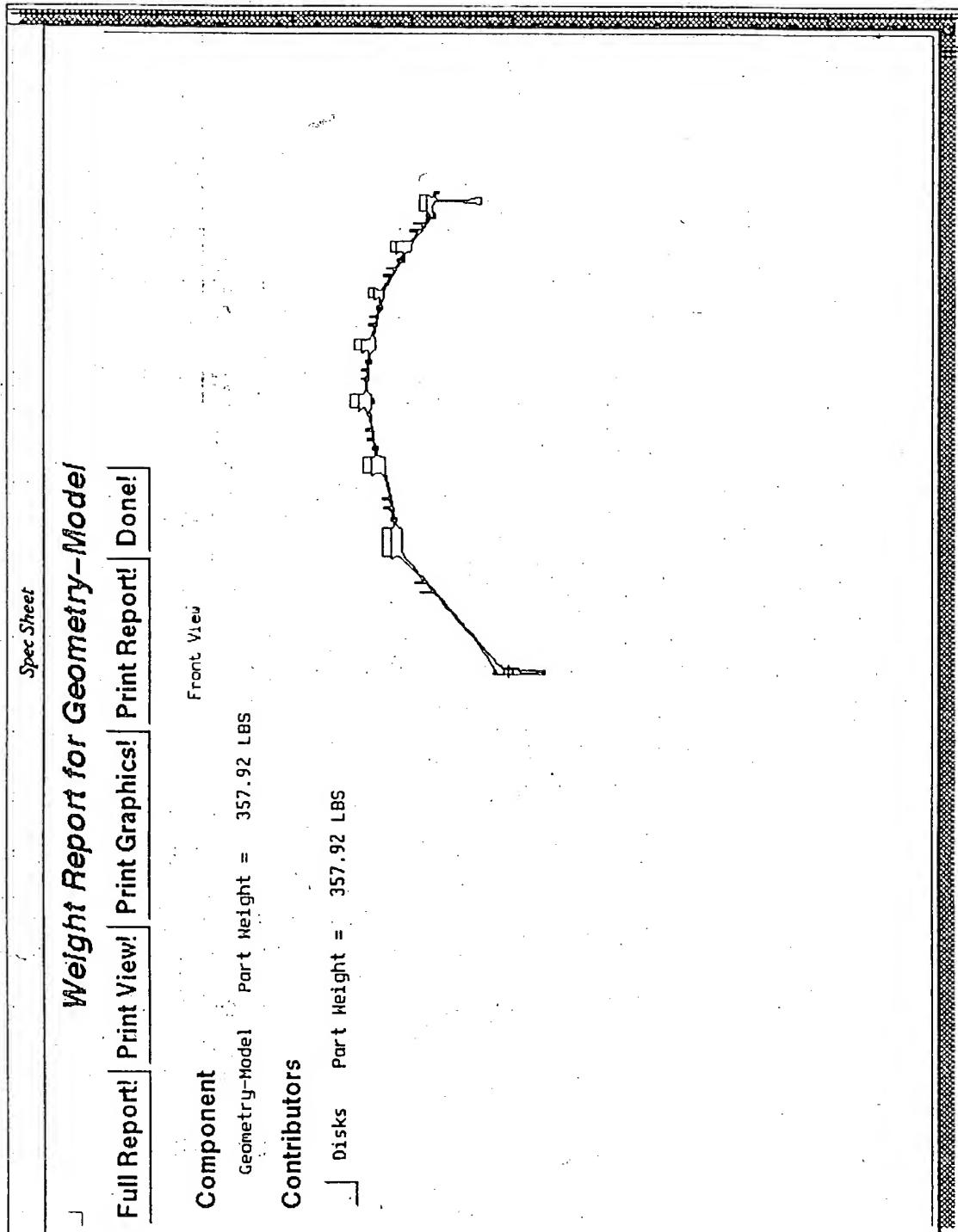


FIG.8



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FIG. 9

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Output ICAD-to-UG Files		
<input type="button" value="Update!"/>	<input type="button" value="Accept!"/>	<input type="button" value="Validate!"/>
Profile Parts:		
<input type="checkbox"/> R0	<input type="checkbox"/> R1	<input type="checkbox"/> R2
<input type="checkbox"/> R3	<input type="checkbox"/> R4	<input type="checkbox"/> R5
<input type="checkbox"/> R6	<input type="checkbox"/> D	
Other Parts:		
<input type="checkbox"/> Stick Figure	<input type="checkbox"/> Flowpath	<input type="checkbox"/> Engine Centerline
<input type="checkbox"/> D		
Single File? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> D		
Ug output Type: <input type="checkbox"/> complete cross-section <input type="checkbox"/> D		
Directory: <input type="checkbox"/> /home/e099935/icad/msrs/1pc/pw4098/ <input type="checkbox"/> D		
Filename Pattern: <input type="checkbox"/> pw4098-mfpa <input type="checkbox"/> D		
Write UG Prt file!		
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> R		
Single X-ess File? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> R		
X-ess Directory: <input type="checkbox"/> /home/e099935/icad/msrs/1pc/pw4098/ <input type="checkbox"/> D		
X-ess Filename Pattern: <input type="checkbox"/> pw4098-mfpa <input type="checkbox"/> D		
Write the X-ess parameters!		

FIG.10